

## ABSTRACT

A method of forming, on a substrate, minute-sized columnar portions of a columnar structured material at minute intervals, and a columnar structured material formed by the manufacturing method. A columnar structured material is formed through an etching process in which a pattern of minute dots formed on the substrate is utilized as a mask. The pattern of the minute dots is obtained by introducing a mask material into columnar microholes of a porous film formed on the substrate and then removing the porous film. The porous film is formed by removing columnar substances from a structured material in which the columnar substances which are so formed as to contain a first component are dispersed in a matrix which is made of another component and is so formed as to contain a second component that can form a eutectic together with the first component.